AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing Of Claims:

1. (Original) A method for producing an integrated microsystem, the method comprising:

providing at least one silicon-germanium functional layer;

providing at least one germanium sacrificial layer, wherein the at least one germanium sacrificial layer is at least partially removed in an etching solution, and a pH value of the etching solution is stabilized around a pH value of at least approximately 7 by using a buffer; and

providing at least one open metal surface

- 2. (Original) The method of claim 1, wherein the buffer is free of at least one of alkalis, alkaline earths and metals.
- 3. (Original) The method of claim 1, wherein the buffer is selected so that a change in the pH value of the etching solution by etching products, which form during the etching process, is prevented by the buffer.
- 4. (Original) The method of claim 1, wherein the etching solution is made up at least partially of acidified hydrogen peroxide.
- 5. (Original) The method of claim 1, wherein the etching solution contains one of peroxosulfate, peroxodisulfate, a chlorate, a chlorite and a hypochlorite as an oxidizing agent.
- 6. (Original) The method of claim 1, wherein a buffer solution of the buffer contains cations of nitrogen compounds.
- 7. (Original) The method of claim 1, wherein the buffer contains at least one of a bicarbonate, a carbonate, a tartrate and an acetate.
- 8. (Original) The method of claim 1, wherein the buffer contains anions of phosphorus compounds.
- 9. (Original) The method of claim 1, wherein the buffer includes nitrate ions.

- 10. (Original) The method of claim 7, wherein the buffer is made of at least one of ammonium acetate, ammonium dihydrogenphosphate and tetramethyl ammonium dihydrogenphosphate.
- 11-25. (Canceled)
- 27. (Original) The method of claim 8, wherein the buffer contains anions of dihydrogenphosphate, hydrogenphosphate or phosphate ions.
- 28. (Original) The method of claim 14, wherein the metal layer includes an aluminum layer, and the diffusion barrier includes a TiN layer, which are structured using a plasma etching process.

29.-30. (Canceled)

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